



# OTVARC Oscillator

The Oregon Tualatin Valley Amateur Radio Club Newsletter

April 1996 Issue

## OTVARC PRES COLUMN FOR APRIL 1996

Time marches on. Rickreal is over. Puyallup was a couple of weeks ago. Next on the Hamfest schedule we have two choices. The Fort Vancouver Hamfair (sponsored by Clark County ARC) and the Southern Oregon Regional Ham Show (sponsored by the Umpqua Valley ARC) both take place on Saturday April 27. Since one is at the American Legion Post North of Hazel Del and the other is at the Douglas County Fairgrounds in Roseburg, you'll need a pilot's license, rather than a Ham license if you want to take in both events.

Hamfairs are always interesting. I went to Puyallup and had a great time. I managed to find a replacement for my stolen IC-24 dual band hand-held. Plus, I picked up a 2 meter hand held and also a 440 hand held. All 3 radios work and cost less than \$500 total. Add a 440 Ringo antenna for \$10 and I felt like a bandit. So, I decided to spend the rest of the day rummaging through the junk boxes on and under some of the more "interesting" tables. That resulted in adding 3 bicycle wrenches to my bike tool kit for 75 cents. Lynn WB7UNU is now the "proud" owner of a 2.5-4 GHz amplifier that was in a free pile (It sure looked like it would work, Lynn).

Several other OTVARC members (K7WWG, KB7OYI, N7PEX, W7NI, W7AGQ & others) were seen bargaining and selling. I discovered that maybe I now know far too many of the people behind the swap tables and conversely maybe far too many recognize me. While standing near the main entrance, I was asked if I was "working security here too". I guess my low profile days in Ham radio are gone.

The Hamfair calendar pages are turning and the June 1 & 2 dates for SEA-PAC are rapidly approaching. 2-day flea market tables are sold out. Commercial exhibit space is sold out. Half of the Banquet tickets have sold. If you haven't sent in your registration, remember the extra award ticket deadline is April 15. WE STILL NEED VOLUNTEERS TO HELP AT SEA-PAC!!! Security, Exhibit Set-up, Registration, Flea Market, Ladies Program all still need helpers. Even if you have never been to SEA-PAC before, we can use your help. There will be sign-up sheets at the April & May OTVARC club meetings.

We have many other OTVARC volunteer

## April Program:

No News From Neil - Come to the April Meeting for a Suprise Speaker.

## VOLUNTEERS REQUESTED TO WORK ROSE PARADES

**ROSE FESTIVAL** will be here sooner than you think! We're already looking for vounteers to work the two parades. Here's your chance to view the parades from inside the "Pink Line".

The **STARLIGHT PARADE** is the same weekend as the SEAPAC convention (Saturday, June 1, 1996). So, if you're not going to spend the entire weekend there, we could use 2-meter & 440 operators to each cover (walking back and forth) about a 3 block range along the parade route. We'll need about 15 operators (which is always a challenge when most hams are busy tiptoeing through tables of tremendous treasures tantalized by tempting terrific trades & transmutations.) It's a long time to June, so please be reasonably certain that you'll be able to work the parade if you volunteer.

The **GRAND FLORAL PARADE** (Saturday, June 8, 1996) has many operators already, however, each year there is some turn over. If you would like to be placed on a list of potential volunteers, please give me a call.

The **Portland Rose Festival Association** is grateful to the many hams who operate each year and to **ARRG** whose repeaters are used for these events. They say **THANK YOU!**

CONTACT: Barry Carlson (WB7WTD) 245-8279(eve); 254-1265 (days).

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Prez - Cont'd - Page 8

## Minutes of Board Meeting 2-28-96

1. Meeting called to order by President Jim Schaeffer at 1906 local
2. Those in attendance: Jim Schaeffer, Alan Chinnock, Neil McKie, Janet Bell, Stan Griffiths, Al Berg, Brad Beach, Chuck Mickley.
3. Minutes were approved.
4. Secretary's Report - Only renewed members received the newsletter this month.  
Catalogs from kit makers have been requested for project night.
5. Treasurer's report was presented.
6. Stan Griffiths - There have been no takers for the loaner HF equipment we have acquired. He will put an article in the newsletter.
7. Janet Bell - Ben Johnson, Washington County ARES reported that hams put in 515 hours during the flood. The agencies served were happy with the services provided and want to know what we need.
8. Old Business
  - A. Moved and seconded to have an Internet Home Page put together by John Beaston and Marc Chamberlin. Passed. John Beaston is from Easy Street, an Internet provider. He will give us, as a non-profit group, services worth about \$30 per month. In return we will say good things about him and his services.
  - B. 501c3: Stan Griffiths reported that Colin Lamb is the lawyer who has been working with Wes Allen on this. We discussed the need to understand the pros and cons of the classification. Stan will start a list of these for the next meeting. From discussions with PARC, we will have to revise our constitution before we can qualify.
  - C. We will have a radio contest April 1, 1996. See newsletter for details.

### From the Secretary Alan Chinnock KB7POR

It has started again. Every month we hear the call from the podium for volunteers to help with SEAPAC. Volunteers for security, volunteers for set up, volunteers for registration, volunteers for volunteers, volunteers for flea market, etc, etc. Why does Jim do this to us every month? Why can't SEAPAC take care of itself? They did a good job without me last year, why should I care?

Let's start with the question "Why can't SEAPAC take care of itself?". To mangle a quote that I believe is credited to Pogo, "We have met SEAPAC and it is us". Believe it or not, SEAPAC is not a large convention sponsoring organization. It is OTVARC, or more correctly it is a small group of very dedicated OTVARC members who love SEAPAC. These people spend the entire year planning the event.

They secure the convention hall, they contact vendors to fill the booths, they advertise the flea market, they invite several thousand HAMS to come, they secure speakers and teachers, they schedule classes, they do this and they do that. And they do all this without even mentioning it to the rest of us in the club. They just DO IT. What ever it needs to be done.

Now comes the big event. There are not enough of them to go around for three days. So THEY ask US to help. They do not make us think, they have already defined the work that needs to be done. They just want our bodies for a short while. And what do we do, try to ignore them. (Please note, this has not worked THEY are still putting SEAPAC together.)

So much for the what of SEAPAC. Why should I help? Does the concept of money suggest anything? You currently pay a whole \$10.00 per year to call yourself a member of OTVARC. This covers the newsletter and a little bit more. We still need to rent the Elks Club room, have a couple of parties a year, and put Field Day on the air. As a club we have also decided to promote Amateur Radio to the community. This all takes money.

Alan Speaks - Cont'd Page 3

## FIELD DAY UPDATE Carl, WS7L

Preparations continue for Field Day, June 22 and 23 1996. We are evaluating potential sites and expect to select one in the next few weeks. Many of you have worked Field Day before, but for those who haven't, here's a little background:

Field Day is an annual event sponsored by the ARRL, held on the fourth full weekend of June. Operation is from 1800 UTC (11:00 a.m. local time) Saturday to 1800 UTC Sunday. We set up stations under field conditions and for 24 hours make as many contacts as possible. This sharpens our skills at setting up and communicating under conditions typical of an emergency situation—we're outside and away from our 110V power, workshops, and antenna farms. We learned this last winter how important it is to be prepared for emergency operation, and Field Day is a valuable exercise in getting communications up and running quickly. Plus, it's fun. It's a good chance to just hang around and get to know your fellow club members.

Field Day serves also as a friendly way to get a taste of HF contest operation. I recommend it especially to newer licensees who have not yet had the opportunity to get on the air on HF. We work stations all over the US and Canada and beyond. Remember, even those without HF privileges can participate, as we will have appropriate control operators on duty at all times. We will have three HF stations on the air: Phone, CW and Novice/Tech, all powered by battery. Packet, satellite, and VHF/UHF stations might also be featured.

Now the usual stuff. To some extent, our needs will depend on what's available at the site we choose. Likely needs, however, are the following:

**Radio Stuff.** In addition to OTVARC's HF rig and antennas, we need two additional 12-Volt HF transceivers with associated keyers, microphones, antenna tuners, etc. We also need antennas for the CW station. Coleman lanterns. While the trailer has 12V lights for night operation, the other stations will need these.

**Tents.** We will operate one or two stations from tents. Heavy canvas tents are preferable because of their durability, but with due care we can make use of nylon tents as well. I have one large canvas tent; at least one more will be needed.

**Tables and chairs.** At least three tables or desks and four to six chairs.

**Control Operators.** We need to have enough Extra and Novice or Tech-Plus operators on site to ensure that all three stations can operate with full privileges around the clock.

**Food Czar.** It's always more fun if we can have some organized feeding. Either a cookout or someone to coordinate pizza or whatever. This one is wide open for someone who wants to take it on.

Feel that volunteer spirit welling up inside you? Give me a call at 629-5796. I plan to see you there June 22 and 23!

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### Alan Speaks - Cont'd from Page 2

How much money? How would you like to have your membership cost \$40.00 per year with a discount to \$35.00 for additional family members? That's what I thought, I would not like that either. So here comes the other option. Attend SEAPAC, volunteer to assist with some part of the event. You will get a lot more out of the experience than just keeping your dues low. You will get to talk to vendors, Hams, other club members, members of your own club, kids who could become Hams, and Seaside residents who want to know what all this interest in radios is all about.

Don't make the SEAPAC committee force you into working on the event, VOLUNTEER WILLINGLY.  
By the way, what does SEAPAC mean, anyway?

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### WHAT DOES SEA-PAC MEAN ??

When the Convention was started back in 1982 it had no real name. One year it was Oregon Ham Convention and the next it was the ARRL Division Ham Convention and most people just called it the Seaside Hamfair. It needed an identity!! An offer of \$100.00 was made to any club member who could name it. Not one offer!!! I sat down one evening and wrote down every word I could think of relating to our area. Putting them together it came out as the SEASIDE-PACIFIC HAM CONVENTION. Short is sweeter so SEA-PAC was gradually entered into our advertising and the longer term was slowly phased out. Now you know THE REST OF THE STORY!!

AL WB7SIC



### THE NODE NETWORK - continued

The NODES command has another feature that gives you a simple way to find out if another node is accessible and, if it is, the best route to use to reach it. It's easy to make a quick check of the route quality to any other node. All you need to do is enter N followed by either the alias or callsign of the node that you want to reach, such as:

N FRESNO or N W6ZFN-2

You'll receive a report showing up to three routes to the node you asked about, how good these routes are and how up to date the information is. If there is no information available, you will receive either "Not found" or the complete node list, depending on the type of node or switch you're using.

Let's take a look at a typical report you would receive after entering N FRESNO. If you were connected to a NET/ROM or TheNet node the report would look like this:

SFW:W6PW-1} Routes to: FRESNO:W6ZFN-2

105 6 0 WB9LOZ-2

78 6 0 WW6L-1

61 5 0 WA8DRZ-7

If you were connected to a G8BPQ packet switch you would see one less column in the report and it would look like this:

SF:WB9LOZ-2} Routes to: FRESNO:W6ZFN-2

> 126 6 W6PW-10

61 3 WW6L-1

60 4 W6PW-1

Each line is a route to the node you asked about. The symbol > indicates a route that's in use. The first number is the quality of the route. 255 is the best possible quality and means a direct connect via hard wire to a coexisting node at the same site; zero is the worst, and means that the route is locked out. 192 is about the best over the air quality you'll find, and it usually means that the node is only one hop away. If you see a quality of less than 80, you'll probably have a difficult time getting any information through via that route. The second number is the obsolescence count. This number is a 6 when the information for this route is less than an hour old. For each hour that an update on the route is not received, this number is decreased by one. A 5 means the information is an hour old, a 4 means that it's two hours old, and so on. The next number, shown only on NET/ROM and TheNet nodes, indicates the type of port. A 0 is an HDLC port; a 1 is an RS-232 port. You don't need to pay any attention to this figure. The callsign is that of the neighboring node that's next in line on the route. Digipeaters are shown if any are used to reach this neighboring node.

This quick check on a node that you want to reach can save you a lot of time. You'll know immediately whether or not the node is available, and if it is, how good the available routes are to it. You then won't have to spend time trying to connect to a node that isn't available or is of poor quality.

If you find that there's a decent route to the node or switch you want to reach, it's normally best to let the network

make the connection for you. Simply enter a connect to the alias or callsign you want rather than connecting to each individual node along the route yourself.

If a route exists but the quality is not very good, you might want to connect to the neighboring node shown for the best route, then do another quality check, repeating this procedure until you find a route with decent quality. You can actually get through to some distant nodes using this method if you have the time and patience to work on it.

**ROUTES:** The ROUTES command (abbreviated as R) will give you a list of the direct routes available from the node you're using to other nodes. These are the nodes seen directly by the node you're using. The quality of each route is shown along with the obsolescence count, as explained above. Any route marked with an exclamation point (!) means that the route values have been entered manually by the owner of the node and usually means that the route is not reliable for regular use.

**USERS:** The USERS command (which can be abbreviated as U) will show you the calls of all the stations using the node you're connected to. There are five descriptions used by the node to describe how users are connected:

**UPLINK:** The station indicated is connected directly to the node.

**DOWNLINK:** The node has made a connection from the first station to the second station.

Example: DOWNLINK (K9AT-15 N6UWK) would mean that the node connected to N6UWK at the request of K9AT.

**CIRCUIT:** Indicates that the station has connected from another node. It shows the alias and call of the other node prior to the user's call.

Example: Circuit (SFW:W6PW-1 WA6DDM) would mean that WA6DDM is using this node, but he connected to it from the SFW:W6PW-1 node.

**CQ:** See "CQ" below.

**HOST:** The user is connected directly from the node terminal. This is seen when the owner of the node is a user, or the BBS associated with the node is using it to forward messages.

**CQ COMMAND:** The CQ command (which cannot be abbreviated) is used for calling CQ, and it also can be used for replying to the CQ of another station. The CQ command is available only in the latest version of NET/ROM and TheNet.

**Using the CQ Command:** The CQ command is used to transmit a short text message from a node, and is also used to enable stations that receive the transmission to connect to the station that originated it. The command is entered as: CQ [textmessage] The "textmessage" is optional and can be any string up to 77 characters long (blanks and punctuation are allowed). In response to a CQ command, the node transmits the specified textmessage in "unproto" mode, using the callsign of the originating user with a translated SSID as the source and "CQ" as the destination. For example, if user station W6XYZ connects to a node and issues the command: "CQ Anybody around tonight?", the node would then transmit "W6XYZ-15>CQ: Anybody around tonight?"

# News From All Over

## BUCKMASTER WANTS YOUR PICTURE

By Chuck Mickley KI7CL

Yes, Buckmaster is bribing people for their picture to include in their next CD-ROM. They are giving away free CD-ROM's for every group of 10 individual pictures that they receive from each club. They would also like to get a group picture of club members also. Here's what we will do—At the April 10th club meeting, bring your best face, we'll take a picture of it at break time (provided we have at least 10 willing faces), and a group shot of those people too, then have a drawing to see who will get the CD-ROM(s). Buckmaster requires a permission form for each person pictured, so we'll use the permission slips as a drawing entry form. Maybe you can be a winner!

## 1996 Calendar of Interesting Things

Apr 1	Monday	OTVAR FM Simplex Contest (for real)
Apr 16	Tuesday	Project Night - Anderson Connectors
Apr 19-21		Travellers Netarts Dale & Betty Planer
Apr 27	Saturday	Spring National Exam Day
Apr 27	Saturday	Clark County ARC Flea Market (leave your dog home)
May 17-19		Travellers Surprise Al & Mary Berg
May 21	Tuesday	Project Night - Rollup J-pole
May 31	Friday	SEAPAC
Jun 1	Saturday	SEAPAC
Jun 2	Sunday	SEAPAC
Jun 19	Wednesday	Project Night - Build Your Own Kit
Jun 21-23		Travellers Field Day
Jun 22	Saturday	Field Day
Jun 23	Sunday	Field Day
Jul 19-21		Travellers Skamokawa, WA Roger & Marvel Noyes
Aug 2-4	Weekend	WIMU 96, Park City Utah
Aug 16-18		Travellers A Fun Place Rick & Joan Schouweiler
Sep 11	Wednesday	September Meeting - Flea Market (see Apr27)
Sep 15	Sunday	Walk for the Cure
Sep 20-22		Travellers Randle, WA Chuck & Betty Mickley
Sep 28	Saturday	Fall National Exam Day
Sep 29	Sunday	Fall National Exam Day
Oct 18-20		Travellers Somewhere Bob & Jo Orr
Nov 15-17		Travellers Depoe Bay Tom & Barb Bailey
Nov 29	Friday	Santa Claus Parade
This Year		NWDX Convention in Portland

If you would like an event included in the calendar please call Alan Chinnock KB7POR at 636-2237. If it is in reasonably good taste I will include it.



## Visitors, we have visitors

OTVARC welcomed Bob Papadakes KC7MBY and Tom Brown KC7LTF to the March meeting. We hope you enjoyed the meeting and will return for more in the future.

## From: Satellite Station - W7KJZ



**\*\*SAPPHIRE, A Jewel in the Sky - from the Amsat Journal\*\***

Students of Stanford University's Satellite systems Development Laboratory (SSDL) have been involved in the design and construction of a new microsatellite since April of 1994. The name of this satellite is the Stanford Audio Phonic Photographic Infrared Experiment (you guessed it "SAPP HIRE"). This satellite weighs 40 pounds, is 12 inches tall, and 17 inches in an hexagonal diameter. When launched this mission of this satellite include 1) assessing the performance of experimental IR sensors, 2) performing digital space photography, and 3) transmitting voice synthesized messages. The budget for this project is \$50,000.

The communications system provides uplink and downlink data packet transmission and downlink voice and beacon output. Data down is at a 1200 baud with AFSK encoding, AX.25 packet protocol and standard mode J Amateur Radio satellite frequencies. The transmitters and receivers are Hamtronics kits optimized for operation in space. The initial flight operations to commence with emphasis on payload research and educational activities. When these finished it is proposed that complete operational activity will be transferred to the amateur satellite community. Watch this column for launch schedule.

**\*\*SAREX Cloth Patches\*\***

Would you like to have a SAREX cloth patch to wear on your jacket? If you do, send \$6 along with your name, address, and callsign to AMSAT, 850 Sligo Ave., #600, Silver Spring, MD 20910.

**\*\*OSCAR 13 Demise - from the OSCAR Satellite Report\*\***

James Miller, G3RUH, undisputed expert on OSCAR 13 operations the earliest re-entry date for AO-13 is December 3, 1996 with the loss of signal shortly before that. At all times James is tweaking the Bird to keep it operational as long as possible. Eventually Sir Isaac Newton will take over.

**\*\*Phase 3D Shock Testing - from the OSCAR Satellite Report\*\***

Phase 3D Shock Testing was successfully accomplished during the week of Jan. 29 to Feb. 2. The test was performed at the US Air Force's LMSIL Survivability and Vulnerability Integration Center at Little Mountain, Utah. This test exposed the P3D SBS structure to the shock environment on the Ariane 5 launch vehicle during launch. Following the shock exposure tests the operational performance of the spacecraft's separation system (in full-up, flight configuration) was successfully demonstrated.

**\*\*Into Orbit with the Final Phase 3 Orbit - from 73 Magazine, March issue page 16\*\***

If you are a 73 Magazine subscriber check out this article by Andy MacAllister, WA5ZIB. Andy also has a column on "Hamsats" as well in this issue. The information contained in this article is pretty much the same as in previous P3D articles in QST.

**\*\* Satellite Sounds Available (for you Internet types) \*\***

Roy Welch, W0SL, has uploaded three .WAV files to the AMSAT (ftp.amsat.org) FTP site that contain recordings of radio signals received from OSCAR 1 (OSCAR1.ZIP), Explorer 1 (EXPLORE1.ZIP) and Sputnik 1 (SPUTNIK1.ZIP). The files each are around 100k each in size and will play about ten seconds of audio. Paul, KB5MU, has placed them in the /amsat/misc/sounds directory at ftp.amsat.org. He has also put them on the AMSAT web page (<http://www.amsat.org>). Each satellite file at the FTP site has a corresponding text file explaining circumstances of the recording.

A mind once stretched by a new idea, never regains its original dimensions. Open yours, read a book...any book!

73 de Dick - W7KJZ @ KOs 23&25..sometimes AO13 & 16



Brain Teaser Answer: (From Top Down)  
1. Eye, 2. Ear, 3. Lid, 4. Lip, 5. Gum, 6. Arm, 7. Rib, 8. Hip, 9. Leg, 10. Toe



## Are you listening Washington County?

At the last general meeting, Greg - W7AGQ, our ARRL District Vice-Director, mentioned working that is underway by the League concerning enhancement of the PRB-1. The following is an article I found in the April Issue of WorldRadio. I support the work as I would imagine the rest of you would. Take a few minutes and think about how it would benefit you. I feel certain that you will also see the importance of this type of bill.- N7VZF

### Antenna Rules Petition - April Issue - WorldRadio

The ARRL has petitioned the FCC to compel state and local governments to reduce restrictive regulations on Amateur Radio antennas, and make "reasonable accommodations" in line with PRB-1.

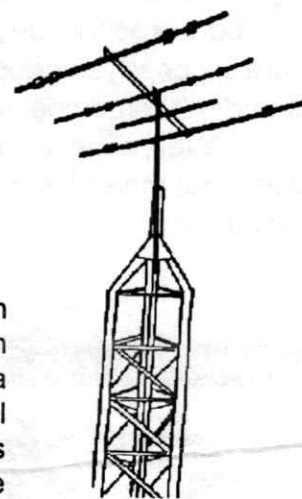
In a Petition for Rulemaking filed February 7, the League requests that "...any state or local ordinances restricting ham radio antennas to heights below 70 feet would be resumed to be unreasonable, unless the state or local authority could show its restrictions support a clearly defined health, safety or aesthetic objective." Under the proposed new rules, state and local governments would also be prevented from charging "substantial" fees or application costs to amateur licensees.

The ARRL, in its *Bulletin* dated 15 February, 1996, also states that the League wants the FCC to acknowledge that it has an interest in the effective performance of Amateur Radio stations in areas regulated by deed restrictions or restrictive covenants rather than by local zoning ordinances. Clarifying the preemption policy, according to the League, would serve to guide municipalities in making fair accommodations for amateurs, and also help avoid "divisive and costly litigation" between amateurs and municipalities.

In the proposed changes, state and local governments could apply to the FCC for waivers in unusual circumstances. As of this writing the FCC has yet to assign an RM, or Rulemaking number to the petition.

The petition suggests the wording of Section 97.15(e) be as follows:

1. State and local regulation of a station antenna structure must not preclude amateur service communications. Rather, it must reasonably accommodate such communications; it must constitute the minimum practicable regulation to accomplish the state or local authority's legitimate purpose; and it must not impose substantial costs on amateur service licensees.
2. Any state or local antenna restriction or regulation which, on its face or as applied, would limit amateur station antennas to heights below 70 feet is presumed unreasonable unless the promulgating authority can demonstrate that such regulation is necessary to accomplish a clearly defined, and expressly stated health, safety or aesthetic objective; that there is no less burdensome alternative to the regulation; and that the Federal interest in efficient Amateur Radio communications from the amateur station at issue is otherwise reasonably accommodated.
3. Any state or local authority, or other entity that wishes to maintain and enforce zoning, land use or other regulations or restrictions inconsistent with this section may apply to the Commission for a full or partial waiver of this section. Such waivers may be granted by the Commission in its sole discretion, upon a showing by the applicant that local concerns of a highly specialized or unusual nature create an overwhelming necessity for regulation inconsistent with this section. No application for waiver shall be considered unless it includes the particular regulation for which waiver is sought. Waivers granted according to this rule shall not apply to later-enacted or amended regulations by the local authority unless the Commission expressly orders otherwise.



## The Prez - From Page 1

opportunities. Carl WS7L still needs help on the Field Day Committee. If you felt last year's Field Day needed some changes, this is your chance to make the changes happen. The committee is in the midst of site selection, now! We still need a Emergency Services coordinator. You need no experience; just an interest. AND, its not too early to start forming a nominations committee for our fall election. As with everything in the club, If you don't know who to contact (or if you have comments, complaints, etc.) call me at 503-245-2518. I try to have the answering machine on at all times when I am not home.

Lately I have fielded some very interesting calls of the "I hear you are President of the Ham radio club" variety. One of these resulted in an interesting evening for Alan KB7POR and I. Cub Scout Pack 21 of Markham School in Southwest Portland asked if someone could demonstrate Ham radio at their Blue & Gold Banquet. Their theme was "Communication in Scouting". So, with a little sleuthing, I discovered that Pack 193 at Lewelling School in Milwaukie was having their banquet at the same time. We politely invited ourselves onto the program at Lewelling (I don't think they really had planned a program and were relieved we offered). Alan & I set up a 7:15 schedule on 2 meters. Alan went to Lewelling and I went to Markham. We each spent about 10 minutes explaining Ham radio and then let the two pack banquets talk to each other. it was quite an experience; especially since the attention span of cub scouts is about 10 minutes and we had a 15 minute program. However, afterward several boys come up and wanted to know more. They asked questions until time to lock up the building.

Did you miss the March OTVARC meeting? Great program by Andrew Fields of Cyber Highway. Those who attended had an opportunity to find out the basics of search engines, providers, browsers, URLs, home pages, news groups, on ramps, ISPs, servers, UUNET, domain names, etc. (even my M.S. Word spell checker didn't know what most of these were). The audience also had an opportunity to explain some of the basics of packet radio to the speaker. OTVARC now has a Home Page on the Internet. This has been provided at no cost by Easy Street (a local Internet provider). Our Internet address (I can't remember it) is listed elsewhere in the newsletter. We were also presented with a Community Service recognition award from the Oregon Chapter of the National M.S. Society. Dawn & Brian from the M.S. Society attended the meeting to present the award for OTVARC's communication support of their Bike Tour events over the years. A show of hands indicated that almost 30% of the members present had participated in M.S. events over the years. We also had another great raffle. there were six or seven good prizes. Jim AE7W went home with an AEA antenna tuner. W7AGQ won again; but I don't remember what he won.

Well, almost done babbling again for this month! I haven't had any complaints or crank calls lately. Does that mean I'm doing a good job or does it mean you've given up on me. Let me hear what YOU think!!!

AAAAAAAAdh

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The Inventor of the **DK<sup>3</sup>** Screwdriver Antenna  
(long time member of OTVARC)

**DK** (Don) Johnson W6AAQ has a 20+ page construction manuscript available for \$5.00. Why pay big bucks? You can build your own **CONTINUOUS COVERAGE HF MOBILE ANTENNA** with about \$40.00 worth of parts available from most do-it-urself hardware stores. .

**DK** Johnson Box 595, Esparto CA 95627



## Intro to Packet - From Page 4

After making the transmission in response to the CQ command, the node "arms" a mechanism to permit other stations to reply to the CQ. A station wishing to reply may do so simply by connecting to the originating call-sign shown in the CQ transmission (W6XYZ-15 in the example above). A CQ command remains "armed" to accept replies for 15 minutes, or until the originating user issues another command or disconnects from the node.

Any station connected to a node may determine if there are any other stations awaiting a reply to a CQ by issuing a USERS command. An "armed" CQ channel appears in the USERS display as:

(Circuit, Host, or Uplink) <~~> CQ(usercall).

The station may reply to such a pending CQ by issuing a CONNECT to the user callsign specified in the CQ(...) portion of the USERS display—it is not necessary for the station to disconnect from the node and reconnect.

Here's what a typical transmission would look like: (\* = entered by user)

\* cmd: C KA6YZS-1

cmd: \*\*\* Connected to KA6YZS-1

\* USERS

501SJC:KA6YZS-1} NET/ROM 1.3 (669)

Uplink(WB9LOZ)

Uplink(K1HTV-1) <~~> CQ(K1HTV-14)

Circuit(LAS:K7WS-1 W1XYZ) <~~> CQ(W1XYZ-15)

Uplink(N4HY)

\* CONNECT W1XYZ-15

501SJC:KA6YZS-1} Connected to W1XYZ

\* Hello! This is George in San Jose

Hi George! Thanks for answering my CQ. etc.

Users of the CQ command are cautioned to be patient in waiting for a response. Your CQ will remain "armed" for 15 minutes, and will be visible to any user who issues a USERS command at the node during that time. Wait at least five minutes before issuing another CQ to give other stations a chance to reply to your first one!

BBS: The BBS command is available on nodes using the G8BPQ software where an associated packet bulletin board system is operational. Entering BBS will connect you to the associated BBS.

BYE: The BYE command is available on G8BPQ nodes and is used for disconnecting from the node. It does the same thing as disconnecting.

IDENT: The IDENT command, found on NET/ROM nodes, will give you the identification of the node you're using.

INFO: The INFO command, found on TheNet and G8BPQ nodes, will give you information about the node, usually the alias, callsign and location.

PARMS: The PARMS (Parameters) command, found on NET/ROM nodes, is for the owner's use in determining how his station is working.

73.....Rick - KB7OGD @ KB7OGD.OR.USA.NOAM

## DEETH & ASSOCIATES

- \* Telecommunications
- \* Cellular Phones & Accessories
- \* Security Systems

(503) 324-3737

Ray Deeth

Dale Wert

(800) 723-3737

180 So. Main (#C)

Banks, Oregon 97106

## ROHN Towers

- \* New 25 and 45 in stock locally \*
- \* Gin Pole available for customer use \*
- \* Prices competitive with mail order \*

Stan Griffiths, W7NI

18955 S.W. Blanton St.

Aloha, OR 97007-1230

Internet: W7NI@teleport.com

Phone: (503) 649-0837

FAX: (503) 591-1620

## P&amp;L Budget Comparison

January through December 1996

	Jan - Dec '96
<b>Income</b>	
Membership Dues	1,800
Interest Income	500
SEA-PAC Income	6,000
Raffle Income	600
Miscellaneous Income	
ARRL Membership Renewals	100
Newsletter Advertising Sales	490
Miscellaneous Income - Other	0
Total Miscellaneous Income	590
<b>Total Income</b>	<b>9,490</b>
<b>Expense</b>	
Contributions	1,300
Education	1,300
Election of Officers	200
Field Day	300
Liability Insurance	320
Licenses and Permits	10
Miscellaneous	
Health & Welfare	200
Miscellaneous - Other	200
Total Miscellaneous	400
Newsletter Expenses	
Newsletter Postage	1,000
Printing	600
Total Newsletter Expenses	1,600
Office Supplies	100
Prof Fees Accounting	200
Raffle Prizes	2,700
Rent	1,200
Repairs - Equipment	250
Social Events	
Meals for Guests	100
Picnic	300
Christmas Party	600
Social Events - Other	1,000
Total Social Events	2,000
Taxes	25
<b>Total Expense</b>	<b>11,905</b>
<b>Net Income</b>	<b>-2,415</b>

## Atlas shrugged

**Worldradio** has been in communication with two Amateur Radio operators who ordered (and prepaid) Atlas radios in 1994 and have yet to have those orders satisfactorily filled, despite their repeated attempts. Both men have requested in writing to have their money refunded, since no satisfactorily working radio has been delivered. Neither has received a refund.

**Worldradio's** attempts to try to intercede for these gentlemen to expedite their refunds have not been successful, and we have been unable to talk to anything but a machine there in the last couple of months. Despite our request for a reply, our recent faxes have elicited no response from them.

**Worldradio** would like to hear from anyone who has received delivery from Atlas Radio Company (10457 Roselle St., San Diego, CA 92121; 619/535-1000; Customer service hotline 1-800/5-ATLAS-8; Fax 619/535-1603) of an Atlas transceiver in good working order in the last four years. Please send your letter to **Worldradio**, Helen Noble, Advertising Director, P.O. Box 189490, Sacramento, CA 95818. **WR**

Guess what local club used a nice new Atlas radio for THE major prize giveaway at their Ham Convention last year?? The radio was a prototype and did not work. It had no serial #, manual or warranty. Could a company be that stupid?

**A1 WB7SIC**

**BRAIN TEASER:**

Name 10 parts of the body (no slang please, I blush) that have 3 letters. I will even give you the first 2 - Arm and Leg. There are 8 more. - The answer is somewhere in this issue.

Bill - N7VZF

## AZDEN RADIOS

2-Meter and 6-Meter mobiles in stock

Call: Jack - N7CXX in Wilsonville

Local Phone - Information (503)682-7898

Orders Only Please 1-800-835-4895

## OTVARC Club Contacts

### OTVARC Executive Board

President	Jim Schaeffer	KB7ADH	245-2518
Vice President	Neil McKie	WA6KLA	649-4264
Secretary	Alan Chinnock	KB7POR	636-2237
Treasurer	Brad Beach	N7NVC	657-1781
Trustee	Wes Allen	K7WWG	649-3295
Trustee	Chuck Mickley	KI7CL	642-1284
Trustee	Janet Bell	WB7FJC	648-4147
Trustee	Al Berg	WB7SIC	640-5456
Trustee	Stan Griffiths	W7NI	649-0837

### Other Club Contacts

ARRL Coordinator	Bob Orr	WF7Q	297-2732
Bunny Hunting	OPEN		
Contesting	OPEN		
DX News	Rich Jones	KG7FS	645-9417
Equipment Evaluation	Randy Stimson	KZ7T	297-1175
Equipment Trustee	Al Berg	WB7SIC	640-5456
Emergency Services	OPEN		
Field Day	Carl Clawson	WS7L	629-5796
Health & Welfare	Mary Berg	N7TRW	640-5456
Member Badges	Carl Clawson	WS7L	629-5796
Newsletter Editor	Bill Merwin	N7VZF	644-1974
Newsletter Layout	Bill Merwin	N7VZF	644-1974
Newsletter Distribution	Al Berg	WB7SIC	640-5456
Nominating Committee	Hanford Van Ness	KE7BB	246-7975
Packet - Club BBS	Rick Braun	KB7OGD	645-1490
Project Night	Alan Chinnock	KB7POR	636-2237
	Chuck Mickley	KI7CL	642-1284
Public Relations	Bill Merwin	N7VZF	644-1974
Public Service	Randy Stimson	KZ7T	297-1175
Repeater	Wes Allen	K7WWG	649-3295
RFI & TVI	Dale Mosby	N7PEX	640-0217
Satellites	Dick Emmel	W7KJZ	245-1928
Scholarship	Carl Clawson	WS7L	629-5796
Sea-Pac	Al Berg	WB7SIC	640-5456
	Brad Beach	N7NVC	657-1781
	Jim Schaeffer	KB7ADH	245-2518
	Randy Stimson	KZ7T	297-1175
Technical	OPEN		
Tower Ordinances	Stan Griffiths	W7NI	649-0837
Trailer	Dee Lynch	KA7NPN	646-4580
Training(Code)	Burt Rooke	KI7JX	241-2891
Training(Novice/Tech)	Burt Rooke	KI7JX	241-2891
Training(Upgrade)	OPEN		
VHF/UHF	Alan Chinnock	KB7POR	636-2237

## OTVARC Club Information

**Purpose:** The Oregon Tualatin Valley Amateur Radio Club, a Not-for-profit corporation, wants to be instrumental in helping the prospective as well as established Amateur to become a proficient communicator in the Amateur Radio Service.

Additionally, the intent is to promote the advancement of Amateur Radio Service through the following five objectives:

1. Education & Training of new and licensed Amateurs.
2. Public Service during public events & community activities.
3. Emergency communications during emergencies & disasters.
4. Hobby enhancement through meetings, nets & contests.
5. Social contact with other amateurs & interested persons.

**Special Service Club** OTVARC is an ARRL Special Service Club. The ARRL grants us this distinction due to our participation in emergency preparedness exercises, public service events and other service-oriented programs. In addition, continuing educational and training programs are conducted for FCC licenses. OTVARC benefits from you joining the ARRL through OTVARC. To join or renew your membership in the ARRL, contact the treasurer at any regular meeting.

**Newsletter:** The *OTVARC Oscillator* is the club newsletter. It is published monthly and is usually mailed on the first of the month. The opinions, views and recommendations of its contributors are not necessarily those of the Club, its officers, advertisers or the editorial staff.

**Correspondence:** All correspondence may be sent to OTVARC, PO Box 5132, Aloha, OR 97006-0132.

**Advertising:** Classified ads are free to all paid up members. Display ads are available to approved commercial interests. To place an ad, mail your camera ready copy to the address above and indicate the size desired. All display ads run for six months at a time from January through June and July through December. All ads must be paid for in advance. Rates for 1994 are as follows:

Full Page	8" X 10"	\$200 for 6 mo.
Half Page	8" X 5"	\$125 for 6 mo.
Qtr Page	4" X 5"	\$75 for 6 mo.
Bus. Card	2" X 3"	\$35 for 6 mo.

**Meetings:** We have two meetings per month. The board meeting is on the first Wednesday of each month. All club business is conducted at this meeting. All members are welcome to attend. Contact the President for location and time. The general meeting is on the second Wednesday of each month at the Beaverton Elks Club, 3500 SW 104th Ave. (1 block north of Canyon Road). Meetings start at 7PM. If you would like to come early, you can get a nice meal from the Elks for less than \$6.

**Membership** OTVARC is open to anyone who is interested in amateur radio. You do not need to be a licensed radio amateur to join. Dues are as follows: Full member, \$10/yr; Associate member (non-licensed), \$10/yr; Family members of full member, \$5/yr; Life memberships available - see Treasurer. Only full members and life members may vote on club business and serve as club officers. All memberships expire on the last day of the calendar year. If you would like to join during the year, see the club Treasurer for prorated dues.

**How To Join:** Simply mail the Member Application and Renewal Form along with your dues to the address above.

• Buy • Sell • Trade

### HAM RADIO EQUIPMENT

JOSEPH REAVES  
N6FRA

14355 S.W. Bull Mtn. Rd.  
Tigard, OR 97224

(503) 590-4736  
Estate Appraisals

## BORSCH ELECTRONICS

Communications Servicing

9935 S.W. Johnson St.  
Tigard, OR. 97223

Joe Borsch W7PNS

(503) 684-5201



## OTVARC PROJECT NITE

by Chuck Mickley & Alan Chinnock

It's finally here! The newly-revived Project Nite is set to begin soon, so mark your calendars now!

To review, first, Project Nite is a time to get together to work on construction projects that you were afraid to tackle all by yourself. This is the time to learn the technical side of Ham Radio, the difference between a Volt, Scope, resistor, solder, etc. (it will make all that technical jargon begin to make sense at upgrade time).

Second, no one will be turned away for their lack of ability (nor for their overabundance of knowledge, or opinions).

Third, it's a time for great camaraderie, and to see what your friends and neighbors are up to.

Now, for the details—

The first sessions are scheduled for the Tualatin Valley Fire & Rescue Headquarters, 20665 SW Blanton, Aloha, OR, between 198th and 209th, just South of TV Highway, next to Intel. All sessions will be from 7PM to 9PM.

The first session will be Tuesday, April 16th, and will feature the installation of those red and black Anderson connectors on the power cables of your equipment that doesn't already have them. You DO want to be prepared for that next emergency, don't you?

The second session on Tuesday, May 21st will feature the Twin-lead, rollup J-pole 2-M antenna. You can take it anywhere and put it up in a jiffy. One for the shack, one for the car, one for the pickup...

The third session on Wednesday, June 19th will begin the general confusion of building a kit (or kits) of your choice (so many choices, so little time).

Future sessions will be planned in accordance with the desires of the OTVARC membership, so make your suggestions now.

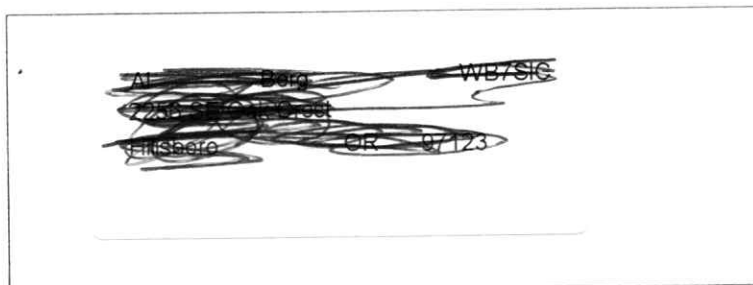
If you have a kit that you've seen in a magazine or other source that might be of interest to others, has a complete parts, circuit board, and cabinet (if needed) available from one source, then please bring a copy of it to any of these sessions.

If you have any tools, soldering equipment, test equipment, or expertise that you are willing to donate or lend, please contact Chuck 642-1284 or Alan 636-2237. Please make sure that any tools you bring to any of these sessions are clearly marked, if you would like to donate it to the club, then mark it OTVARC.

We hope to see you there!

Oregon Tualatin Valley Amateur Radio Club  
Post Office Box 5132  
Aloha, Oregon 97006-0132

*Address Correction Requested*



**FIRST CLASS MAIL**